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On page 35, line 9, insert --SEQ ID NO:44 and SEQ ID NO:48-- after "SEQ ID NO:22,".

On page 62, line 23, insert --44 and 48-- after "SEQ ID NOS:13, 14, 15, 16, 21, 22,".

On page 63, line 11, replace "SEQ ID NOS:1, 2, 3, 4, 19, 20, or 32" with --SEQ ID NOS:1, 2, 3, 4, 19, 20, 32, 43 or 47--.

Please cancel the present "SEQUENCE LISTING, pages 91-129, and insert therefor the accompanying paper copy of the Sequence Listing, page numbers 1 to 43, at the end of the application. Cancel the present Claims on pages 130-141, and cancel the page numbers of the Amended Claims, pages 142-146, and renumber as pages 91-95, accordingly.

REMARKS

Support for the amendments to page 35, line 6 and page 63, line 11, is found on page 26, lines 16-22, where the group of SEQ ID NOS: representing amino acid sequences of small conductance, calcium activated (SK) channel proteins of the present invention contains the amended SEQ ID NOS:43 and 47. Similarly, support for the amendments to page 35, line 9 and page 62, line 23, is found on page 39, lines 19-23, where the group of SEQ ID NOS: representing nucleic acid sequences of small conductance, calcium activated (SK) channel proteins of the present invention contains the amended SEQ ID NOS:44 and 48.

Applicants request entry of this amendment in adherence with 37 C.F.R. §§1.821 to 1.825. This amendment is accompanied by a floppy disk containing the above named sequences, SEQ ID NOS:1-48, in computer readable form, and a paper copy of the sequence information which has been printed from the floppy disk.

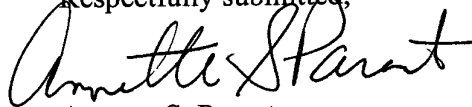
The information contained in the computer readable disk was prepared through the use of the software program "PatentIn" and is identical to that of the paper copy. This amendment contains no new matter.

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PATENT

If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at 415-576-0200.

Respectfully submitted,



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